## IN THE CLAIMS

 (Currently Amended) A method of forecasting future orders of parts for products sold to customers, comprising the steps of:

determining a time-course record of orders with respect to each part and extracting low-order-rate parts whose order records show order rate to have fallen below the a predetermined level;

determining from each such order record at least one parameter indicating a characteristic of orders after the order rate fell below the predetermined level, classifying the extracted low-order-rate parts into multiple categories and using the parameter indicating the characteristic of orders to calculate for each of the multiple categories an order occurrence probability distribution;

carrying out Monte Carlo simulation based on the calculated order occurrence probability distributions to determine occurrence rate probability distributions of number of orders during a predetermined period; and

forecasting future number of orders of the low-order-rate parts based on the calculated occurrence rate probability distributions of number of orders during the predetermined period.

2. (**Currently Amended**) A method according to claim 1, further including the steps of:

determining a time-course record of orders with respect to each part and extracting second low-order-rate parts whose order records show order rate to have fallen below a second predetermined level higher than said predetermined level;

classifying the extracted second low-order-rate parts into multiple categories and using the parameter indicating the characteristic of orders to calculate for each of the multiple categories an order occurrence probability distribution;

carrying out Monte Carlo simulation based on the calculated order occurrence probability distributions of the second low-order-rate parts to determine occurrence rate probability distributions of number of orders during a predetermined period;

calculating future number of orders of the second low-order-rate parts based on the calculated occurrence rate probability distributions of number of orders during the predetermined period; and

forecasting the future number of orders of the second low-order-rate parts by regression analysis based on order records before order rate fell below the second predetermined level and the calculated number of orders.

- 3. (**Original**) A method according to claim 1, wherein the parameter indicating the characteristic of orders is at least one of an order occurrence interval and a ratio of number of orders.
- 4. (**Original**) A method according to claim 2, wherein the parameter indicating the characteristic of orders is at least one of an order occurrence interval and a ratio of number of orders.
- 5. (**Original**) A method according to claim 3, wherein the ratio of number of orders is a ratio of the number of orders after order expired to the number of orders before order expired.

- 6. (**Original**) A method according to claim 4, wherein the ratio of number of orders is a ratio of the number of orders after order expired to the number of orders before order expired.
- 7. (**Currently Amended**) A method of forecasting future orders of parts for products sold to customers, comprising the steps of:

determining a time-course record of orders with respect to each part and extracting low-order-rate parts whose order records show order rate to have fallen below the a predetermined level;

determining from each such order record an order occurrence probability distribution as a function of time and an order occurrence probability distribution as a function of a ratio of number of orders;

carrying out Monte Carlo simulation based on the calculated order occurrence probability distributions to determine occurrence rate probability distributions of number of orders during a predetermined period; and

forecasting future number of orders of the low-order-rate parts based on the calculated occurrence rate probability distributions of number of orders during the predetermined period.

- 8. (**Original**) A method according to claim 7, wherein the ratio of number of orders is a ratio of the number of orders after order expired to the number of orders before order expired.
- 9. (**Original**) A method according to claim 7, wherein the extracted low-order-rate parts are classified into multiple categories and the order occurrence probability distribution is determined for each of the multiple categories.

- 10. (**Original**) A method according to claim 1, further including the steps of: checking accuracy of the forecast number of orders; and changing the categories based on a result of checking.
- 11. (**Original**) A method according to claim 7, further including the steps of: checking accuracy of the forecast number of orders; and changing the categories based on a result of checking.
- 12. (**Currently Amended**) A system for forecasting future orders of parts for products sold to customers, comprising:

time-course order record determining means for determining a time-course record of orders with respect to each part and extracting low-order-rate parts whose order records show order rate to have fallen below the a predetermined level;

order occurrence probability distribution determining means for determining from each such order record at least one parameter indicating a characteristic of orders after the order rate fell below the predetermined level, and for classifying the extracted low order-rate parts into multiple categories and using the parameter indicating the characteristic of orders to calculate for each of the multiple categories an order occurrence probability distribution;

Monte Carlo simulation means for carrying out Monte Carlo simulation based on the calculated order occurrence probability distributions to determine occurrence rate probability distributions of number of orders during a predetermined period; and

forecasting means for forecasting future number of orders of the low-order-rate parts based on the calculated occurrence rate probability distributions of number of orders during the predetermined period.

13. (**Currently Amended**) A system according to claim 12, further including:

second time-course order record determining means for determining a time-course record of orders with respect to each part and extracting second low-order-rate parts whose order records show order rate to have fallen below a second predetermined level higher than said predetermined level;

second order occurrence probability distribution determining means for classifying the extracted second low-order-rate parts into multiple categories and using the parameter indicating the characteristic of orders to calculate for each of the multiple categories an order occurrence probability distribution;

Monte Carlo simulation means for carrying out Monte Carlo simulation based on the calculated order occurrence probability distributions of the second low-order-rate parts to determine occurrence rate probability distributions of number of orders during a predetermined period;

order calculating means for calculating future number of orders of the second low-order-rate parts based on the calculated occurrence rate probability distributions of number of orders during the predetermined period; and

forecasting means for forecasting the future number of orders of the second low order-rate parts by regression analysis based on order records before order rate fell below the second predetermined level and the calculated number of orders.

14. (**Original**) A system according to claim 12, wherein the parameter indicating the characteristic of orders is at least one of an order occurrence interval and a ratio of number of orders.

- 15. (**Original**) A system according to claim 13, wherein the parameter indicating the characteristic of orders is at least one of an order occurrence interval and a ratio of number of orders.
- 16. (**Original**) A system according to claim 14, wherein the ratio of number of orders is a ratio of the number of orders after order expired to the number of orders before order expired.
- 17. (**Original**) A system according to claim 15, wherein the ratio of number of orders is a ratio of the number of orders after order expired to the number of orders before order expired.
- 18. (**Currently Amended**) A system for forecasting future orders of parts for products sold to customers, comprising:

time-course order record determining means for determining a time-course record of orders with respect to each part and extracting low-order-rate parts whose order records show order rate to have fallen below the a predetermined level;

order occurrence probability distribution determining means for determining from each such order record an order occurrence probability distribution as a function of time and an order occurrence probability distribution as a function of a ratio of number of orders;

Monte Carlo simulation means for carrying out Monte Carlo simulation based on the calculated order occurrence probability distributions to determine occurrence rate probability distributions of number of orders during a predetermined period; and forecasting means for forecasting future number of orders of the low-order-rate parts based on the calculated occurrence rate probability distributions of number of orders during the predetermined period.

- 19. (**Original**) A system according to claim 18, wherein the ratio of number of orders is a ratio of the number of orders after order expired to the number of orders before order expired.
- 20. (**Original**) A system according to claim 18, wherein the extracted low-order-rate parts are classified into multiple categories and the order occurrence probability distribution is determined for each of the multiple categories.
  - 21. (**Original**) A system according to claim 12, further including of: checking means for checking accuracy of the forecast number of orders; and changing means for changing the categories based on a result of checking.
- 22. (**Original**) A system according to claim 18, further including the steps of:

checking means for checking accuracy of the forecast number of orders; and changing means for changing the categories based on a result of checking.